



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

April 8, 2013

Mr. Mike Novak, Esq.  
Keller And Heckman, LLP  
( *Serving Business through Law and Science®* )  
1001 G Street, N.W.  
Washington, DC 20001

Subject: Amendment Of Product Label And Technical Bulletin  
Product Name: **Selectroicide 2L500**  
EPA Registration Number: **74986-4**  
Application Date: April 2, 2013  
Application Received Date April 2, 2013

Dear Mr. Novak:

This acknowledges receipt of your Label Amendment application, submitted pursuant to the Federal Insecticide, Fungicide, and Rodenticide Act ( FIFRA ) 3(c) 7(A), as amended.

Pesticide Application:

Selective Micro Technologies, LLC is re-Submitting the Master Label and Technical Bulletin to eliminate a Claim against ***Clostridium difficile - spore form.***

General Comments:

Selective Micro Technologies, LLC is welcomed to submit new data that will achieve a ***Clostridium difficile - spore form*** Claim at some time in the future.

Based on the review of the material submitted, the following comments apply. The Label Amendment application is **Acceptable**. A copy of the EPA-stamped, **Accepted** Product Label and Technical Bulletin is enclosed for the Company record.

If you have questions or comments with regard to this Agency Letter, the please contact Killian Swift via email at [Swift.Killian@epa.gov](mailto:Swift.Killian@epa.gov) or by telephone at **703-308-6346**. When you are submitting information or data in response to this Agency Letter, please send a copy of this Agency Letter with your response in order to facilitate processing.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Monisha Harris".

Monisha Harris,  
EPA Product Manager 32  
Regulatory Management Branch II  
Antimicrobials Division 7510P

MASTER LABEL

# Selectroicide®

## -2L500-

ALTERNATE BRAND NAMES: SELECTROICIDE POUCH® 200 MG; CLO2BBER 100

### DISINFECTANT/SANITIZER/VIRUCIDE\* FUNGICIDE/ALGAECIDE/SLIMICIDE/DEODORIZER

[PRODUCES TWO LITERS OF 500 PPM CHLORINE DIOXIDE SOLUTION WHEN ACTIVATED]  
[PRODUCES TWO LITERS OF 100 PPM CHLORINE DIOXIDE SOLUTION WHEN ACTIVATED]  
[PRODUCES ONE LITER OF 100 PPM CHLORINE DIOXIDE SOLUTION WHEN ACTIVATED]

When used as directed, this chlorine dioxide-generating product is proven effective as: a **disinfectant** against *Pseudomonas aeruginosa*, *Staphylococcus aureus*, *Salmonella enterica*, methicillin-resistant *S. aureus* (MRSA), vancomycin-resistant *Enterococcus faecalis*, *Trichophyton mentagrophytes* (athlete's foot), *Listeria monocytogenes*, and *Candida albicans*; a **sanitizer** against *E. coli* (and *E. coli* O157:H7), *S. aureus*, *Salmonella typhimurium* (MDRS), *Klebsiella pneumonia*, and *Listeria monocytogenes*; a **fungicide** against *Penicillium digitatum*, *Botrytis Sp.*, and *Fusarium solani*; an **algaecide** (*Phormidium boneri*). **\*Viruses:** Corona virus, Feline Calicivirus, Hepatitis A virus, Human Immunodeficiency virus type 1 (HIV-1), Poliovirus-1, Rotavirus, Influenza-A virus, Rhinovirus type 37, Canine Parvovirus, Adenovirus type 5, Herpes Simplex virus type 2, Vaccinia virus, and Norovirus (feline calici used as testing surrogate); \*kills Pandemic 2009 H1N1 Influenza A virus (formerly called swine flu). See Technical Bulletin (page 3) for ATCC designation numbers of the above-listed organisms.

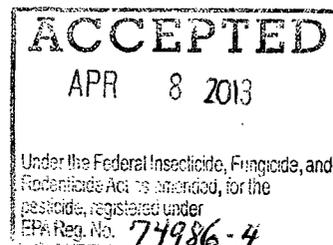
KEEP OUT OF REACH OF CHILDREN

## DANGER

(See back panel for other cautions)

Active Ingredient:	
Sodium Chlorite:.....	30.5%
Other Ingredients:.....	69.5%
Total:.....	100.0%

[Amount of Chlorine Dioxide generated = 0.05%] [For Selectroicide® 2L500]  
[Amount of Chlorine Dioxide generated = 0.01%] [For Selectroicide® Pouch 200MG]  
[Amount of Chlorine Dioxide generated = 0.01%] [For CLO2BBER 100]



FIRST AID
<b>If in Eyes:</b> Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
<b>If on Skin or Clothing:</b> Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
<b>If Swallowed:</b> Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.
<b>If Inhaled:</b> Remove victim to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for treatment advice. Get medical attention.

Have the product container or label with you when calling a poison control center, doctor, or going for treatment. For emergency information concerning this product, call the National Pesticides Information Center (NPIC) at 1-800-858-7378 seven days a week, 6:30 am to 4:30 pm Pacific Time (NPIC Web site: www.npic.orst.edu).

**Note to Physician:** Probable mucosal damage may contraindicate the use of gastric lavage.

MASTER LABEL

EPA Registration No. 74986-4

EPA Establishment No. 071441-OH-004

Manufactured for: Selective Micro Technologies  
4449 Easton Way – 2<sup>nd</sup> FL Columbus, OH 43219

[www.selectivemicro.com](http://www.selectivemicro.com)

Net Weight of contents.....[0.44 ounces (12.34 grams)]  
[0.08 ounces (2.42 grams)]  
[0.05 ounces (1.52 grams)]

MASTER LABEL

**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER:** DRY INGREDIENTS: CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE AND CAUSES SKIN BURNS. HARMFUL IF SWALLOWED. WEAR PROTECTIVE EYEWEAR (GOGGLES, FACE SHIELD OR SAFETY GLASSES) WHEN HANDLING DRY INGREDIENTS. WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING AND BEFORE EATING, DRINKING, CHEWING GUM, USING TOBACCO OR USING THE TOILET. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE.

ACTIVATED SOLUTION: CAUSES MODERATE EYE IRRITATION. AVOID CONTACT WITH EYES, SKIN, OR CLOTHING. AVOID BREATHING VAPORS. WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING AND BEFORE EATING, DRINKING, CHEWING GUM OR USING TOBACCO.

**PHYSICAL OR CHEMICAL HAZARDS**

DRY SODIUM CHLORITE IS INCOMPATIBLE WITH ACIDS, REDUCING AGENTS, COMBUSTIBLE MATERIALS, SULFUR-CONTAINING RUBBER, SOLVENTS AND PAINTS. KEEP ACTIVATED SOLUTION FROM LIGHT AND HEAT. CHLORINE DIOXIDE GAS MAY CONCENTRATE IN OPEN SPACE OF POUCH. ALWAYS OPEN ACTIVATED POUCH AND DILUTE ACTIVATED SOLUTION IN WELL-VENTILATED AREA.

**NOTE:** For use in the institutional or commercial applications discussed below and in the accompanying Technical Bulletin. Not for use in households or where young children may be present. Cap is not child-resistant.

**STORAGE AND DISPOSAL**

DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE AND DISPOSAL. STORE IN COOL, DRY, VENTILATED AREA. STORE BELOW 50° C (122° F). KEEP PRODUCT OUT OF DIRECT SUNLIGHT. STORE SEPARATELY FROM WATER AND ACIDS. IF PACKAGE RUPTURES AND CONTENTS SPILL, DO NOT PERMIT CONTACT OF CONTENTS WITH ORGANIC MATERIALS (FOR EXAMPLE: CLOTHING OR COMBUSTIBLE MATERIALS) OR ACIDS. PESTICIDE WASTES ARE TOXIC. IMPROPER DISPOSAL OF EXCESS DRY PESTICIDE IS A VIOLATION OF FEDERAL LAW. IF THIS PRODUCT CANNOT BE USED ACCORDING TO LABEL INSTRUCTIONS, CONTACT YOUR STATE PESTICIDE OR ENVIRONMENTAL CONTROL AGENCY, OR THE HAZARDOUS WASTE REPRESENTATIVE AT THE NEAREST EPA REGIONAL OFFICE FOR GUIDANCE. **NONREFILLABLE CONTAINER.** DO NOT REUSE OR REFILL THIS CONTAINER. COMPLETELY EMPTY ACTIVATED SOLUTION IN POUCH INTO APPLICATION EQUIPMENT. OFFER FOR RECYCLING, IF AVAILABLE, OR DISPOSE OF EMPTY POUCH IN A SANITARY LANDFILL OR BY INCINERATION, OR, IF ALLOWED BY STATE AND LOCAL AUTHORITIES, BY BURNING. IF BURNED, STAY OUT OF SMOKE.

**WARRANTY STATEMENT:** WARRANTY STATEMENT: Selective Micro Technologies warrants the product to be free from defects in material and workmanship. SELECTIVE MICRO TECHNOLOGIES MAKES NO WARRANTY THAT THE GOODS SHALL BE MERCHANTABLE. SELECTIVE MICRO TECHNOLOGIES MAKES NO WARRANTY, EXPRESSED OR IMPLIED, EXCEPT SUCH AS IS EXPRESSLY SET FORTH HEREIN. Selective Micro Technologies shall not be liable for any incidental or consequential damages for any breach of warranty. Selective Micro Technologies' liability for any breach of warranty shall be limited to the purchase price of the product.

When used as directed, on hard, non-porous surfaces (e.g., stainless steel, brass, glass, vinyl, PVC, polypropylene), this product is an effective sanitizer, disinfectant, virucide\*, fungicide, algacide, general-purpose antimicrobial and cleaner for use in a wide range of applications, including but not limited to: hospitals; medical & veterinary facilities; pharmaceutical production facilities, including equipment (e.g., ultracentrifuges); wineries, breweries, and beverage/bottling plants; laboratories and other clinical settings; potable and non-potable water systems and attendant equipment & tubing; restaurants and food processing plants; and greenhouses/horticultural settings. Heavily soiled surfaces must be pre-cleaned prior to treatment. Apply by mop, sponge, or sprayer, ensuring visible wetness for times specified for these applications, or apply through immersion or clean-in-place application. Wear a NIOSH/MHSA-approved respirator appropriate for chlorine dioxide when using a high-pressurized sprayer and under other circumstances detailed in the Technical Bulletin.

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**DIRECTIONS FOR USE:** IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH THE LABELING. READ THE ENTIRE LABEL AND USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND USE.

**FOR POUCH SIZE OF 0.44 OUNCES (12.34 GRAMS):**

1. Fill the pouch with tap water (2 liters) to generate the chlorine dioxide solution.
2. Wait 2 hours **BEFORE USE TO ENSURE SOLUTION REACHES FULL STRENGTH AT 500 PPM.**
3. Shake gently before use. Direct spout away from face when opening, work in well-ventilated area, and avoid inhaling fumes. Wear protective gloves if hands will come in contact with activated solution during dilution or application. Wear protective gloves and wear a NIOSH/MHSA-approved respirator appropriate for chlorine dioxide when using product at full strength.
4. See Technical Bulletin for recommendations regarding dilutions and contact times for specific applications. Before use, verify concentration using *Selective Micro<sup>®</sup> Chlorine Dioxide Test Strips* to ensure appropriate concentration (see Technical Bulletin for directions if *Test Strips* indicate lower-than-desired concentration).
5. Activate prior to expiration date stamped on pouch. If solution in pouch will not be used up within 48 hours of activation, transfer unused solution to a dark, oxidation-resistant closed or sealed container; store dilutions of solution in a sealed container of the same type (see Tech Bulletin for container details). Store original or diluted solutions in cool place out of direct sunlight (do not store in refrigerator dedicated to food storage). Record activation date and concentration on stick-on label shipped with pouches, and affix to pouch or storage container. Use solution and/or subsequent dilutions within 15 days of activating pouch.

**FOR POUCH SIZE OF 0.44 OUNCES (12.34 GRAMS) USE THE FOLLOWING GENERAL DILUTIONS AND TABLE**

General Dilution Instructions: All dilutions begin with a stock solution at a nominal concentration of 500 ppm, except when the product is activated directly to the application concentration (see technical bulletin). Except where otherwise directed, or for other use concentrations (see technical bulletin), use the following dilution instructions to achieve the use concentration indicated:

To Achieve Use Concentration of:	Use Dilution Device or Sprayer With a Dilution Ratio of:
500 ppm	Do not dilute
100 ppm	1:5 (one part 500 ppm solution to 4 parts water)
50 ppm	1:10 (one part 500 ppm solution to 9 parts water)
20 ppm	1:25 (one part 500 ppm solution to 24 parts water)
5 ppm	1:100 (one part 500 ppm solution to 99 parts water)
0.25 ppm	1:2,000 (one part 500 ppm solution to 1,999 parts water)

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**FOR POUCH SIZE OF 0.08 OUNCES (2.42 GRAMS):**

1. Fill the Selectocide® Pouch 200MG pouch with tap water (2 liters) to generate the chlorine dioxide solution.
2. WAIT 1 HOUR BEFORE USE TO ENSURE SOLUTION REACHES FULL STRENGTH AT 100 PPM.
3. Shake gently before use. Direct spout away from face when opening, work in well-ventilated area, and avoid inhaling fumes. Wear protective gloves if hands will come in contact with activated solution during dilution or application. In order to generate 500 ppm stock solution, fill pouch with tap water (0.04 liters) and wait 2 hours before use to ensure solution reaches its full strength. Follow instructions for dilution using dilution tables in label and technical bulletin. Wear protective gloves and wear a NIOSH/MHSA-approved respirator appropriate for chlorine dioxide when using product at full strength.
4. See Technical Bulletin for recommendations regarding dilutions and contact times for specific applications. Before use, verify concentration using *Selective Micro® Chlorine Dioxide Test Strips* to ensure appropriate concentration (see Technical Bulletin for directions if *Test Strips* indicate lower-than-desired concentration).
5. Activate prior to expiration date stamped on pouch. If solution in pouch will not be used up within 48 hours of activation, transfer unused solution to a dark, oxidation-resistant closed or sealed container; store dilutions of solution in a sealed container of the same type (see Tech Bulletin for container details). Store original or diluted solutions in cool place out of direct sunlight (do not store in refrigerator dedicated to food storage). Record activation date and concentration on stick-on label shipped with pouches, and affix to pouch or storage container. Use solution and/or subsequent dilutions within 15 days of activating pouch.

**FOR POUCH SIZE OF 0.08 OUNCES (2.42 GRAMS) USE THE FOLLOWING GENERAL DILUTION INSTRUCTIONS**

General Dilution Instructions: All dilutions begin with a solution at a nominal concentration of 100 ppm, except when the product is activated directly to strength of stock solution (see technical bulletin). Except where otherwise directed, or for other use concentrations (see technical bulletin), use the following dilution instructions to achieve the use concentration indicated:

To Achieve Use Concentration of:	Use Dilution Device or Sprayer With a Dilution Ratio of:
100 ppm	Do not dilute
50 ppm	1:2 (one part 100 ppm solution to 1 parts water)
20 ppm	1:5 (one part 100 ppm solution to 4 parts water)
5 ppm	1:20 (one part 100 ppm solution to 19 parts water)
0.25 ppm	1:400 (one part 100 ppm solution to 399 parts water)

MASTER LABEL

**FOR POUCH SIZE OF 0.05 OUNCES (1.52 GRAMS):**

Fill the CLO2BBER 100 pouch with tap water (1 liter) to generate the chlorine dioxide solution.

1. WAIT 30 MINUTES BEFORE USE TO ENSURE SOLUTION REACHES FULL STRENGTH AT 100 PPM.
2. Shake gently before use. Direct spout away from face when opening, work in well-ventilated area, and avoid inhaling fumes. Wear protective gloves if hands will come in contact with activated solution during dilution or application. In order to generate 500 ppm stock solution, fill pouch with tap water (0.2 liters) and wait 2 hours before use to ensure solution reaches its full strength. Follow instructions for dilution using dilution tables in label and technical bulletin. Wear protective gloves and wear a NIOSH/MHSA-approved respirator appropriate for chlorine dioxide when using product at full strength.
3. See Technical Bulletin for recommendations regarding dilutions and contact times for specific applications. Before use, verify concentration using *Selective Micro® Chlorine Dioxide Test Strips* to ensure appropriate concentration (see Technical Bulletin for directions if *Test Strips* indicate lower-than-desired concentration).
4. Activate prior to expiration date stamped on pouch. If solution in pouch will not be used up within 48 hours of activation, transfer unused solution to a dark, oxidation-resistant closed or sealed container; store dilutions of solution in a sealed container of the same type (see Tech Bulletin for container details). Store original or diluted solutions in cool place out of direct sunlight (do not store in refrigerator dedicated to food storage). Record activation date and concentration on stick-on label shipped with pouches, and affix to pouch or storage container. Use solution and/or subsequent dilutions within 15 days of activating pouch.

**FOR POUCH SIZE OF 0.05 OUNCES (1.52 GRAMS) USE THE FOLLOWING GENERAL DILUTION INSTRUCTIONS**

General Dilution Instructions: All dilutions begin with a solution at a nominal concentration of 100 ppm, except when the product is activated directly to strength of stock solution (see technical bulletin). Except where otherwise directed, or for other use concentrations (see technical bulletin), use the following dilution instructions to achieve the use concentration indicated:

To Achieve Use Concentration of:	Use Dilution Device or Sprayer With a Dilution Ratio of:
100 ppm	Do Not Dilute
50 ppm	1:2 (one part 100 ppm solution to 1 parts water)
20 ppm	1:5 (one part 100 ppm solution to 4 parts water)
5 ppm	1:20 (one part 100 ppm solution to 19 parts water)
0.25 ppm	1:400 (one part 100 ppm solution to 399 parts water)

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SANITIZER FOR HARD, NON-POROUS, FOOD-CONTACT SURFACES: Effective food contact surface sanitizer at 5 ppm against *E. coli* and *E. coli* O157:H7, *Salmonella typhimurium* (MDRS), and *Staphylococcus aureus* with an exposure time of 1 minute. Product may be used on previously cleaned food preparation surfaces; fountain drink and beverage dispensers; glassware, plates and eating utensils; food processing equipment, including beer processing equipment and lines, and food conveyor belts. Dilute to 5 ppm as table above specifies. See Technical Bulletin for alternative dilution instructions and application specifics.

SANITIZER FOR HARD, NON-POROUS, NON-FOOD-CONTACT SURFACES: Effective non-food contact surface sanitizer at 20 ppm against *Staphylococcus aureus*, *Klebsiella pneumonia* and *Listeria monocytogenes* with an exposure time of 5 minutes. Product may be used on non-food contact surfaces, including floors, walls, furnishings, and equipment. Dilute to 20 ppm as table above specifies. See Technical Bulletin for alternative dilution instructions and application specifics.

DISINFECTANT OR VIRUCIDE\* FOR HARD, NON-POROUS SURFACES: Product may be used at 100 ppm with an exposure time of 10 minutes to disinfect hard surfaces in medical or veterinary clinics that may be contaminated with: *Staphylococcus aureus*, *Salmonella enterica*, *Pseudomonas aeruginosa*, methicillin-resistant *S. aureus* (MRSA), vancomycin-resistant *Enterococcus faecalis*, *Trichophyton mentagrophytes* (athlete's foot), *Listeria monocytogenes*, and *Candida albicans*; and the following \*viruses: Corona virus, Feline Calicivirus, Hepatitis A virus, Human Immunodeficiency virus type 1 (HIV-1), Poliovirus-1, Rotavirus, Influenza-A virus, Rhinovirus type 37, Canine Parvovirus, Adenovirus type 5, Herpes Simplex virus type 2, Vaccinia virus, Norovirus and pandemic 2009 H1N1 Influenza A virus. This product may be used as a disinfectant or virucide on general environmental surfaces. Dilute to 100 ppm as table above specifies. See Technical Bulletin for alternative dilution instructions and application specifics.

SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATING SURFACES AND OBJECTS PREVIOUSLY SOILED WITH BLOOD BODY FLUIDS POTENTIALLY CONTAINING HUMAN IMMUNODEFICIENCY VIRUS TYPE 1 (HIV-1) (at 100 ppm/10 min. contact time)

- Wear protective barriers such as disposable latex gloves, gowns, masks, and eye coverings when handling items soiled with blood or body fluids.
- Blood and other body fluids must be thoroughly cleaned from surfaces and objects before application of [Selectrocide® 2L500] [Selectrocide® Pouch 200MG] [CLO2BBER 100] solution.
- Blood, other body fluids, and contaminated cleaning materials should be autoclaved and disposed of according to local regulations for infectious waste disposal.

DISINFECTANT FOR CLEAN-IN-PLACE APPLICATIONS FOR POTABLE WATER SYSTEMS: Product may be used to disinfect lines (contaminated with *Staphylococcus aureus*, *Salmonella enterica*, *Pseudomonas aeruginosa*, methicillin-resistant *S. aureus*, vancomycin-resistant *Enterococcus faecalis*, and *Candida albicans*) used in fountain drink or other beverage preparation, storage, transfer and dispensing. Dilute as table above specifies to either 100 ppm solution for a 10-minute exposure time or to 50 ppm solution for a 20-minute exposure time. See Technical Bulletin for alternative dilution instructions and application specifics.

ANTIMICROBIAL AND GENERAL CLEANING APPLICATIONS FOR POTABLE WATER SYSTEMS: This product will reduce microbial populations in the potable water holding tanks and lines of recreational vehicles (RV) and boats, in marine and RV wastewater tanks and lines; and fountain drink or other beverage preparation, storage, transfer and dispensing lines and equipment. In addition, it will clean, eliminate odors, and remove organic matter. These uses must be followed by a potable water rinse. Because the application is designed for overnight uses, does not require filled tanks, and involves volumes of solution dependent on tank capacity and level of contamination, users should consult page 8 of the Technical Bulletin for application details. (For example, in a potable water tank system with two 80-gallon tanks [a capacity of 160 gallons in total] and a level of contamination judged to be high, then four pouches will be required, determined and applied as described in the Technical Bulletin.)

ANTIMICROBIAL APPLICATIONS FOR NON-POTABLE WATER SYSTEMS IN HORTICULTURAL SETTINGS: This product may be used to reduce microbial populations in non-potable water used with cut flowers to minimize microbial transfer from water to flower, thereby maintaining freshness and extending shelf-life of cut flowers. Dilute to 5 ppm as table above specifies. See Technical Bulletin for detailed directions and dilution and application specifics.

GENERAL DISINFECTANT, SANITIZER, ALGAECIDE AND FUNGICIDE FOR HORTICULTURAL AND GREENHOUSE APPLICATIONS: For horticultural applications, this product may be used to disinfect (100 ppm/10 minutes or 50 ppm/20 minutes) and sanitize (20 ppm/5 minutes) hard, non-porous surfaces; to treat, control, and prevent fungi (5 ppm/1 hour) (*Penicillium digitatum*, *Botrytis* Sp, *Fusarium solani* & *oxysporum* f. sp. *Basilicum* (Fob), and *Pythium irregulare* & *aphanidermatum*), bacteria (*Erwinia chrysanthemi*), algae (*Phormidium boneri*), and attendant slimes, rusts, leaf spot

# MASTER LABEL

and mildews; and to remove slimes (50 ppm/12 hours-overnight) & inhibit reemergence (0.25 ppm/continuous treatment) in irrigation and other non-potable water systems. Concentrations and contact times are application-specific; dilute to use concentrations as table above specifies. See Technical Bulletin for detailed directions and other dilution and application specifics.

FRUIT AND VEGETABLE WASH TO EXTEND FRESHNESS AND SHELF-LIFE. This product may be used at 5 ppm for 1 minute to reduce spoilage microorganisms on raw agricultural commodities (RACs) in food processing facilities. Spray or dip RACs, and follow with a potable water rinse or by canning, blanching, or cooking. Dilute to 5 ppm as table above specifies. See Technical Bulletin for detailed directions and other dilution and application specifics.

ANTIMICROBIAL APPLICATIONS TO CONTROL THE BUILDUP OF MICROBES IN PROCESS WATERS FOR FRUIT AND VEGETABLE RINSE AND ASSOCIATED TANKS, FLUMES, AND LINES. This product will inhibit the build-up of microbes in water used in the processing of fruits and vegetables. Target residual concentrations of chlorine dioxide between 0.25 ppm and 5.0 ppm are recommended to control microbial buildup. Dilute to 0.25 ppm or 5 ppm as table above specifies, or follow directions in Technical Bulletin. Inject chlorine dioxide continuously or intermittently to the system to maintain desired concentration. The frequency and volume of replenishment will vary with the degree of contamination in the fruits and vegetables being processed, target concentration, and process design. See Technical Bulletin for preparation directions and other dilution and application specifics.

ANTIMICROBIAL TREATMENT FOR POULTRY DRINKING WATER. This product may be used at up to 5 ppm but not less than an application concentration sufficient to ensure a residual concentration of 0.25 ppm to control microorganisms in drinking water intended for poultry. Dilute to 5 ppm as specified above, or use directly in system with automatic, on-demand injection system metered to produce desired end concentration up to 5 ppm. Application particulars will depend upon metering system, frequency of replenishment, and capacity of drinking container. See Technical Bulletin for activation instructions and other dilution and application specifics.

SANITIZING FINAL RINSE OF PRE-CLEANED OR NEW RETURNABLE OR NON-RETURNABLE CONTAINERS. This product may be used as a final sanitizing rinse for plastic, glass or metal returnable and non-returnable bottles, cans, caps, kegs, and beverage containers. Beginning with a 500 ppm solution, use a device with a 6:100 dilution ratio (six parts solution to 94 parts water) to produce an end application concentration of 30 ppm. Alternatively, activate directly to the end concentration of 30 ppm using directions in the Technical Bulletin. Rinse bottles, cans, or other containers with the use solution, ensuring visible wetness. Allow to drain dry. See Technical Bulletin for preparation directions and other dilution and application specifics.

ANTIMICROBIAL AND GENERAL CLEANING USES FOR NON-POTABLE WATER APPLICATIONS INVOLVING RECIRCULATING WATER SYSTEMS (E.G., COOLING TOWERS, PAPER MILLS, AND DECORATIVE OR ORNAMENTAL FOUNTAINS): This product will help remove, control and inhibit reemergence of slimes, algae, fungi, and other organic buildups in recirculating water systems. For initial or remedial treatment in cases of visually-obvious build-up of slime, algae, or organic matter: beginning with a 500 ppm solution, for each 1,000 gallons of cooling or fountain water, add 10 gallons of the 500 ppm solution to achieve a residual concentration of chlorine dioxide of approximately 5 ppm. Circulate water in normal system operation. Repeat daily until desired results are achieved. For continuous or periodic treatment: beginning with a 500 ppm solution, for each 1,000 gallons of cooling or fountain water, add one gallon of the 500 ppm solution to achieve a residual concentration of chlorine dioxide of approximately 0.5 ppm. Circulate water in normal system operation. See Technical Bulletin for activation instructions and other dilution and application specifics.

ESL 090412 REV 040113

10/28



**Selective Micro Technologies**

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# Selectrocide® -2L500-

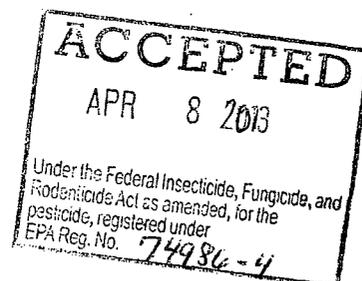
## TECHNICAL BULLETIN

Disinfectant/Sanitizer/Virucide\*

Fungicide/Algaecide/Slimecicide/Deodorizer

EPA Registration No. 74986-4

EPA Establishment No. 071441-OH-004



Activate [*Selectrocide*®2L500] [*Selectrocide Pouch 200MG*] [*CLO2BBER 100*] according to “Directions for Use” on pouch label.

One pouch, activated as directed, contains [two (2) liters] [one (1) liter] of chlorine dioxide solution at a concentration of [500] [100] ppm. Shake pouch gently before use and prepare diluted solutions using the table below.

**[Dilution Instructions For: *Selectrocide*®2L500]**

TO PREPARE A FINAL SOLUTION OF THIS CONCENTRATION	DO ANY ONE OF THE FOLLOWING:					
	(1)	(2)	(3)	(4)		
	Add One (1) Part Activated Solution to This Many Parts Water	Use Contents of an Activated Pouch with a Dilution Device set at:	Add Entire Contents (2 liters) of the Activated Pouch to This Much Water:	Add The Indicated Volume of Activated <i>Selectrocide</i> ®2L500 Solution To Each Liter, Gallon, or Quart of Water:		
				1 Liter	1 Gallon	1 Quart
0.25 ppm	1,999	1:2,000	1,050 gallons (3,998 liters)	0.5 ml	.07 fl oz	.02 fl oz
5 ppm	99	1:100	52 gallons (198 liters)	11 ml	1.3 fl oz	0.4 fl oz
20 ppm	24	1:25	12.5 gallons (48 liters)	42 ml	5.4 fl oz	1.4 fl oz
50 ppm	9	1:10	4.75 gallons (18 liters)	112 ml	14.3 fl oz	3.6 fl oz
100 ppm	4	1:5	2.1 gallons (8 liters)	250 ml	32.0 fl oz	8.0 fl oz ]
500 ppm	0	1:0	0 gallons	NA	NA	NA

**Dilution Instructions For: [*Selectrocide*® Pouch 200MG][*CLO2BBER 100*]**

To Achieve Use Concentration of:	Use Dilution Device or Sprayer With a Dilution Ratio of:
50 ppm	1:2 (one part 100 ppm solution to 1 parts water)
20 ppm	1:5 (one part 100 ppm solution to 4 parts water)
5 ppm	1:20 (one part 100 ppm solution to 19 parts water)
0.25 ppm	1:400 (one part 100 ppm solution to 399 parts water)

The information and instructions in this Technical Bulletin should not be confused with nor followed in violation of applicable laws, regulations, rules, or insurance requirements.

NO WARRANTY IS MADE, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE.

Selective Micro Technologies [www.selectivemicro.com](http://www.selectivemicro.com)

4449 Easton Way – 2<sup>nd</sup> FL Columbus, OH 43219

Master Technical Bulletin 74986-4: 2L500 425-12445 (Revised 8-12)



**BRACKETED [ ] TEXT IS OPTIONAL**

Check concentration of solution using *Selective Micro® Chlorine Dioxide Test Strips*.  
(See box on following page for instructions if check indicates concentration lower than desired)  
Record activation date and concentration on stick-on label and affix to storage container.

Use solution within 15 days of activation.

Storage: Store unused solution according to "Directions for Use" on pouch label.  
Transfer unused solution from pouch to approved storage container within 48 hours of activation.  
After use, dispose of pouches according to disposal instructions on pouch label.

**DURING USE (DILUTING, APPLYING, OR WORKING WITH ACTIVATED PRODUCT):**

1. Always work in well-ventilated area and avoid inhaling fumes of activated solution.
2. Wear protective gloves if hands will come in contact with activated solution.
3. Respiratory protection is not required under the limited exposure conditions of most normal use patterns. However, wear a NIOSH/MSHA-approved respirator under the following conditions:
  - a. when applying activated solution with a high-pressure sprayer
  - b. when working with the activated solution for an extended period of time in a closed facility or in a poorly-ventilated area
  - c. when normal workshift duties entail uninterrupted periods of applying the activated solution with mop, sponge, or sprayer
  - d. if OSHA inhalation exposure limits are reached or exceeded (see MSDS).
4. Do not use product in a manner inconsistent with the label.

**IF TEST STRIPS INDICATE CONCENTRATION (PPM) LOWER THAN DESIRED:**

1. Check expiration date on *Test Strips* container. If expired, then recheck using a fresh *Test Strip* from a container that has not reached its expiration date.
2. If the original container has not expired OR if the recheck indicates a lower-than-desired concentration, THEN DO ONE OF THE FOLLOWING:
  - 2a. If the application solution was prepared directly to the end-concentration (not diluted from a higher concentration), discard the solution and activate a fresh (unused) [*Selectrocide® 2L500*] [*Selectrocide® Pouch 200MG*] [*CLO2BBER 100*]. Recheck concentration after waiting the prescribed time to activation.

OR

  - 2b. If the application solution was prepared by diluting a solution of higher concentration, add small amounts of the higher-concentration solution to the application solution—about 10% of the volume of the application solution at a time—until the *Selective Micro® Chlorine Dioxide Test Strip* indicates the desired concentration. Stir or mix the solution gently after each addition. Use a fresh (unused) *Test Strip* for each test.

**RECOMMENDED SPECIFICATIONS FOR CONTAINERS  
USED WITH SELECTIVE MICRO PRODUCTS**

**FOR USE IN GENERATING OR STORING ACTIVATED SOLUTIONS**

- The container should be—or be comparable to—a UN-approved, liquid-resealable containment incorporating a gasket-sealing surface and locking mechanism.
- Construction should be of dark or opaque/UV-blocking (preferred) oxidation-resistant plastic or glass. Some materials recommended include:
  - High Density Polyethylene (HDPE)
  - Polypropylene (PP)
  - Polyethylene Terephthalate (PET)(PETE)
  - Polyvinyl Chloride (PVC)
  - Polycarbonate (PC)
  - Glass (UV-blocking preferred)
  - Gasket materials; silicone, viton or EPDM

Users without containers comparable to the above may contact Selective Micro Technologies for recommendations or to purchase containers for their applications.



# Selective Micro Technologies

## BRACKETED [ ] TEXT IS OPTIONAL

ATCC (OR OTHER) DESIGNATIONS FOR PATHOGENIC ORGANISMS LISTED ON THE LABELS OF REGISTERED SELECTOCIDE PRODUCTS

—Always Consult Label to Verify Concentrations and Contact Times—

**Bacteria (disinfection claims) 100 ppm/10-minute contact time for clean-in-place applications.**

<i>Pseudomonas aeruginosa</i>	ATCC 15442
<i>Staphylococcus aureus</i>	ATCC 6538
<i>Salmonella enterica (choleraesuis)</i>	ATCC 10708
Methicillin-resistant <i>Staphylococcus aureus (MRSA)</i>	ATCC 33592
Vancomycin-resistant <i>Enterococcus faecalis (VRE)</i>	ATCC 51299
<i>Candida albicans</i>	ATCC 10231
<i>Trichophyton mentagrophytes</i>	ATCC 9533
<i>Listeria monocytogenes</i>	ATCC 19111

**Bacteria (disinfection claims) for 50 ppm/20-minute contact time for clean-in-place applications**

<i>Pseudomonas aeruginosa</i>	ATCC 15442
<i>Staphylococcus aureus</i>	ATCC 6538
<i>Salmonella enterica (choleraesuis)</i>	ATCC 10708
Methicillin-resistant <i>Staphylococcus aureus (MRSA)</i>	ATCC 33592
Vancomycin-resistant <i>Enterococcus faecalis (VRE)</i>	ATCC 51299
<i>Candida albicans</i>	ATCC 10231

**\*Viruses (virucidal claims at 100 ppm/10-minute contact time)**

<i>Coronavirus</i>	ATCC VR-740, Strain 229E
<i>Feline Calicivirus</i>	ATCC VR-782, Strain F-9
<i>Hepatitis A virus</i>	Strain HM-175
<i>Human Immunodeficiency Virus type 1 (HIV-1)</i>	Strain HTLV-III <sub>B</sub>
<i>Poliovirus-1</i>	ATCC VR-1000, Strain Brunhilde
<i>Rotavirus</i>	Strain WA
<i>Influenza-A virus</i>	ATCC VR-544, Strain Hong Kong
<i>Rhinovirus type 37</i>	ATCC VR-1147, Strain 151-1
<i>Canine Parvovirus</i>	ATCC VR-2017, Strain Cornell
<i>Adenovirus type 5</i>	ATCC VR-5, Strain Adenoid 75
<i>Herpes Simplex virus type 2</i>	ATCC VR-734, Strain G
<i>Vaccinia virus</i>	ATCC VR-119, Strain WR
<i>Norovirus (feline calicivirus surrogate)</i>	ATCC VR-782, Strain F-9
Pandemic 2009 H1N1 Influenza A virus	Reference <i>Influenza-A virus</i> (above)

**Bacteria (sanitizer claim for hard, non-porous food contact surfaces) 5 ppm/1-minute contact time**

<i>Staphylococcus aureus</i>	ATCC 6538
<i>Escherichia Coli</i>	ATCC 11229
<i>Escherichia coli O157:H7</i>	ATCC 43895
<i>Salmonella typhimurium (MDRS)</i>	CI 01005 (University of Maryland)

**Bacteria (sanitizer claim for hard, non-porous non-food contact surfaces) 20 ppm/5-minute contact time**

<i>Staphylococcus aureus</i>	ATCC 6538
<i>Klebsiella pneumonia</i>	ATCC 4352
<i>Listeria monocytogenes</i>	ATCC 1911

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**GENERAL USES**

**A. SANITIZER**

**FOR HARD, NON-POROUS FOOD CONTACT SURFACES**

**As a sanitizer for stainless steel and other hard, non-porous food contact surfaces such as tanks, transfer lines and other food processing equipment in food processing plants such as poultry, fish & meat and in restaurants, dairies, beverage and bottling plants, breweries, wineries and commissaries:**

1. Activate [*Selectrocide*<sup>®</sup>2L500] [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBER* 100] pouch according to "Directions for Use" on pouch label.
2. Remove all gross food particles and soil prior to sanitizing using a pre-flush, pre-scrape or pre-soak treatment.
3. Clean tank, line or surface thoroughly using a suitable detergent and rinse with clean, potable water before sanitizing.
4. [Prepare a 5 ppm solution in accordance with instructions above **OR** use the undiluted contents of the activated *Selectrocide*<sup>®</sup>2L500 pouch with a 1:100 dilution device (one part activated solution to 99 parts water).] [[Prepare a 5 ppm solution in accordance with instructions above **OR** use the undiluted contents of the activated [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBER* 100] pouch with a 1:20 dilution device (one part activated solution to 19 parts water).]]
5. To apply: spray, mop, sponge or swab surfaces **OR** fill, flush, immerse or circulate in tanks, lines, and equipment, ensuring the target surfaces remain visibly wet for at least one minute. When applying these solutions using a high-pressure sprayer, wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide.
6. After sanitizing, allow surfaces or equipment to air dry. Do not reuse solution. Do not rinse sanitized surface.
7. Dispose of pouch according to instructions on pouch label.

**FOR HARD, NON-POROUS, NON-FOOD CONTACT SURFACES**

**As a sanitizer for non-porous, non-food contact surfaces and equipment such as sealed concrete and sealed, finished wood, backsplashes, counter tops, stainless steel or hard-surface equipment, glazed tile floors, walls, and ceilings:**

1. Activate [*Selectrocide*<sup>®</sup>2L500] [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBER* 100] according to "Directions for Use" on pouch label.
2. Clean all surfaces thoroughly with a suitable detergent and rinse with water prior to sanitizing.
3. Prepare a 20 ppm solution in accordance with instructions above **OR** use the undiluted contents of the activated [*Selectrocide*<sup>®</sup>2L500] [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBER* 100] pouch with a [1:25] [1:5] dilution device (one part activated solution to [24] [4] parts water).
4. To apply: spray, mop or sponge the 20 ppm solution onto the surfaces to be sanitized, ensuring the target surfaces remain visibly wet for at least five minutes. When applying these solutions using a high-pressure sprayer, wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide.
5. After sanitizing, allow surfaces or equipment to air dry. Do not reuse solution. Do not rinse sanitized surfaces.
6. Dispose of pouch according to instructions on pouch label.

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**B. DISINFECTANT**

To disinfect stainless steel and other hard, non-porous surfaces such as tanks, transfer lines and other food processing equipment in food processing plants such as poultry, fish & meat and in restaurants, dairies, beverage and bottling plants, breweries, wineries and commissaries and to disinfect walls, floors and ceilings

1. [Activate *Selectroicide*<sup>®</sup>2L500 according to "Directions for Use" on pouch label.] [[Activate [*Selectroicide*<sup>®</sup> Pouch 200MG] [*CLO2BBER* 100]] according to "Directions for Use" on pouch label to prepare a 100 ppm solution in accordance with instructions.]]
2. Remove all gross food particles and soil prior to disinfecting using a pre-flush, pre-scrape or pre-soak treatment.
3. Clean tank, line or surface thoroughly using a suitable detergent and rinse with clean, potable water before disinfecting.
4. [Prepare a 100 ppm solution in accordance with instructions above **OR** use the undiluted contents of the activated *Selectroicide*<sup>®</sup>2L500 pouch with a 1:5 dilution device (one part activated solution to four parts water).]
5. To apply: spray, mop, sponge or swab surfaces **OR** fill, flush, immerse or circulate in tanks, lines, and equipment, ensuring the target surfaces remain visibly wet for at least ten (10) minutes. When applying these solutions using a high-pressure sprayer, wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide.
6. After disinfecting allow surfaces or equipment to air dry. Do not reuse solution. Do not rinse disinfected surfaces.
7. Dispose of pouch according to instructions on pouch label.

**DISINFECTANT USES IN MEDICAL AND DENTAL OFFICES, LABORATORIES, HOSPITALS, CLINICS, MORGUES AND INSTITUTIONS**

This product is not to be used as a terminal sterilant/high-level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the blood stream or normally sterile areas of the body or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to pre-clean or decontaminate critical or semi-critical medical devices prior to sterilization or high-level disinfection.

**A. To disinfect non-porous, hard surfaces such as stainless steel or hard-surface equipment, glazed tile floors, walls, ceilings, stainless steel cold rooms and walk-in incubators:**

1. [Activate *Selectroicide*<sup>®</sup>2L500 according to "Directions for Use" on pouch label.] [[Activate [*Selectroicide*<sup>®</sup> Pouch 200MG] [*CLO2BBER* 100]] according to "Directions for Use" on pouch label to prepare a 100 ppm solution in accordance with instructions.]]
2. Clean all surfaces thoroughly with a suitable detergent and rinse with water prior to disinfection.
3. [Prepare a 100 ppm solution in accordance with instructions above **OR** use the undiluted contents of the activated *Selectroicide*<sup>®</sup>2L500 pouch with a 1:5 dilution device (one part activated solution to four parts water).]
4. Spray, mop or sponge the [100] [500] ppm solution onto surfaces to be disinfected. All surfaces must remain visibly wet for at least ten (10) minutes. When applying these solutions using a high-pressure sprayer, wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide.
5. After disinfecting, allow surfaces or equipment to air dry. Do not reuse solution. Do not rinse disinfected surfaces.
6. Dispose of pouch according to instructions on pouch label.

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**B. To disinfect equipment tops, bench tops, biological hoods, incubators, stainless steel equipment and instruments:**

1. [Activate *Selectrocide*®2L500 according to "Directions for Use" on pouch label.] [[Activate [*Selectrocide*® Pouch 200MG] [*CLO2BBER* 100] according to "Directions for Use" on pouch label to prepare a 100 ppm solution in accordance with instructions.]]
2. Clean all surfaces thoroughly with a suitable detergent and rinse with water prior to disinfection.
3. [Prepare a 100 ppm solution in accordance with instructions above **OR** use the undiluted contents of the activated *Selectrocide*®2L500 pouch with a 1:5 dilution device (one part activated solution to four parts water).]
4. Spray, mop or sponge the 100 ppm solution onto surfaces to be disinfected. All surfaces must remain visibly wet for at least ten (10) minutes. When applying these solutions using a high-pressure sprayer, wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide.
5. After disinfecting, allow surfaces or equipment to air dry. Do not reuse solution. Do not rinse disinfected surfaces.
6. Dispose of pouch according to instructions on pouch label.

**C. To disinfect commercial animal confinement facilities such as poultry houses, swine pens, calf barns and kennels:**

1. [Activate *Selectrocide*®2L500 according to "Directions for Use" on pouch label.] [[Activate [*Selectrocide*® Pouch 200MG] [*CLO2BBER* 100] according to "Directions for Use" on pouch label to prepare a 100 ppm solution in accordance with instructions.]]
2. Remove all animals and feed from facility to be disinfected.
3. Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other structures occupied or traversed by animals.
4. Empty all troughs, racks and other feeding and watering appliances.
5. [Prepare a 100 ppm solution in accordance with instructions above **OR** use the undiluted contents of the activated *Selectrocide*®2L500 pouch with a 1:5 dilution device (one part activated solution to four parts water).]

**FOR GENERAL APPLICATION WITH SPRAYER:**

6. With soap or detergent, thoroughly clean all surfaces and rinse with water.
7. Using a commercial sprayer, saturate all surfaces with the solution maintaining visible wetness for a period of at least ten (10) minutes. When applying these solutions using a high-pressure sprayer, wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide.
8. After treatment, ventilate buildings, coops or other enclosed spaces before reentering. Do not house poultry or employ equipment until treatment has been absorbed, set, or dried.

**AS A DISINFECTING SOAK:**

6. With soap or detergent, thoroughly clean halters, ropes or other types of equipment used in handling and restraining animals and forks, shovels and scrapers used in removing litter and manure. Rinse with water.
7. Fill container or vat with 100 ppm solution, and immerse items for a period of at least ten (10) minutes.
8. Discard solution in sanitary drain or as ordinary non-hazardous waste. Do not reuse solution.
9. Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains and waterers with soap or detergent and rinse with potable water before reuse.
10. Dispose of pouch according to instructions on pouch label.

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# ANTIMICROBIAL AND GENERAL CLEANING APPLICATIONS FOR WATER LINES AND TANKS IN POTABLE WATER SYSTEMS

This product will reduce microbial populations in the potable water holding tanks and lines of recreational vehicles (RV) and boats; in marine and RV wastewater tanks and lines; and fountain drink or other beverage preparation, storage, transfer and dispensing lines and equipment, and in coolers, thermoses, plastic water bottles, and other water-storing and dispensing systems used for picnics, camping, and other recreational activities. In addition, it will clean, eliminate odors, and remove organic matter. These uses must be followed by a potable water rinse.

NOTE: If the tank system is cleaned frequently, then consider the level of contamination to be **low to moderate**. If the tank system is used heavily, notably fouled, cleaned irregularly, or going into or coming out of overwintering, then consider the tank(s) level of contamination to be **high**.

- [Based on the judged level of contamination (see box above), determine the number of pouches of *Selectrocide*<sup>®</sup>2L500 necessary to clean the drinking water system in accordance with the table below. Consider all interconnected tanks in the system as one.] [*For example: A system with two 80-gallon tanks has a total capacity of 160 gallons. At low to moderate contamination, use [two (2) Selectrocide<sup>®</sup>2L500] pouches; at high levels of contamination, use four (4) pouches.] [10] [20] [Selectrocide<sup>®</sup> Pouch 200MG] [CLO2BBER 100] pouches; at high levels of contamination, use twenty (20) pouches.]*
- [Activate the [*Selectrocide*<sup>®</sup>2L500] [*Selectrocide*<sup>®</sup> Pouch 200MG] [CLO2BBER 100] according to "Directions for Use" on pouch label.
- Drain all water tanks completely. Then, refill tanks with water to approximately 10% of their capacity (for example, a 100-gallon tank should be filled with 10 gallons of water.)
- After the [two-hour] [one-hour] [thirty-minute] activation time, add the contents from the number of pouches calculated in instruction 1 to the water tanks. **Do not add additional water. Do not refill tank. Close the tank.**

FOR TANKS OF THIS OVERALL SIZE		FILL WITH APPROXIMATELY THIS MUCH WATER (≈ 10% of capacity)	FOR LOW TO MODERATE LEVELS OF CONTAMINATION USE THIS NUMBER OF ACTIVATED POUCHES	FOR HIGH LEVELS OF CONTAMINATION USE THIS NUMBER OF ACTIVATED POUCHES
More than:	Less Than:			
5 gallons	50 gallons	19 liters/5 gallons	[1][5]	[1][5]
50 gallons	100 gallons	38 liters/10 gallons	[1][5]	[2][10]
100 gallons	150 gallons	56 liters/15 gallons	[1][5]	[3][15]
150 gallons	200 gallons	75 liters/20 gallons	[2][10]	[4][20]
200 gallons	250 gallons	95 liters/25 gallons	[2][10]	[5][25]
250 gallons	300 gallons	113 liters/30 gallons	[2][10]	[6][30]
300 gallons	350 gallons	132 liters/35 gallons	[2][10]	[7][35]
350 gallons	400 gallons	151 liters/40 gallons	[3][15]	[8][40]
400 gallons	500 gallons	190 liters/50 gallons	[3][15]	[10][50]

- Circulate the diluted [*Selectrocide*<sup>®</sup>2L500] [*Selectrocide*<sup>®</sup> Pouch 200MG] [CLO2BBER 100] solution through all lines and between tanks using the system's pumps.
- Run approximately [6 ounces of the *Selectrocide*<sup>®</sup>2L500] [30 ounces [*Selectrocide*<sup>®</sup> Pouch 200MG] [CLO2BBER 100]] solution through each outlet (faucet, shower etc.) and let the solution stand in the tanks and lines **OVERNIGHT**.
- The next day, flush the [*Selectrocide*<sup>®</sup>2L500] [*Selectrocide*<sup>®</sup> Pouch 200MG] [CLO2BBER 100] solution through all faucets and outlets until the tanks are empty.
- Refill the tanks with rinse water to approximately 10% of their capacity (10 gallons per 100 gallons capacity).

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9. Circulate the water and flush rinse water through all faucets and outlets until tanks are empty.
10. Tanks are now cleaned and can be refilled for use or left empty for storage.
11. Dispose of pouch(es) according to instructions on the pouch label.

# HORTICULTURAL DISINFECTANT, SANITIZER, ALGAECIDE, FUNGICIDE AND SLIME REMOVER/INHIBITER

**Treats/Controls/Inhibits: Algae (*Phormidium boneri*) and Fungi (*Penicillium digitatum*, *Botrytis sp.*, *Fusarium solani*, *Pythium aphanidermatum*, *Pythium irregulare*, *Fusarium oxysporum f. sp. basilicum* (Fob))**

This product, when used as directed:

- (1) disinfects non-porous hard surfaces, pots, flats, flower buckets and cutting tools;
- (2) sanitizes non-porous hard surfaces, racks, stands, work areas, benches and cutting tools;
- (3) removes or inhibits (under continuous treatment) re-establishment of slime in irrigation/transfer lines and systems;
- (4) treats, controls and prevents build-ups of soil-borne plant diseases and other algae, fungi and attendant slimes on: soils used to grow nursery stocks, bedding plants, flowering plants and ornamentals; on cut flowers and other cuttings, seedlings and seeds; and on and within greenhouse equipment and structures such as irrigation/transfer lines and systems, pots, floors, ventilation ducts and equipment, storage rooms, growing tables, evaporative coolers, plastics, benches and flower pots; and
- (5) controls bacterial counts, maintains freshness, and extends shelf life for cut flowers.

**NOTE: Do not use at concentrations higher than those recommended for each application.** When applied directly to plants, seeds, cuttings or flowers as directed, [*Selectrocide*<sup>®</sup>2L500] [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBBER* 100] does not cause adverse cosmetic effects, as testing has demonstrated. However, testing has not been performed on EVERY plant species, and users are advised to spot-test [*Selectrocide*<sup>®</sup>2L500] [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBBER* 100] before applying it widely.  
**Active solution may be irritating if breathed. If applying solution inside greenhouse or enclosed area using a high-pressure sprayer, wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide: after treatment, ventilate greenhouse before reentering.**

### A. To disinfect non-porous hard surfaces, including stainless steel, glazed tile, sealed concrete and sealed, finished wood used in horticultural applications:

1. Activate [*Selectrocide*<sup>®</sup>2L500] [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBBER* 100] according to "Directions for Use" on pouch label.
2. Pre-clean all surfaces prior to application of disinfectant solution. Sweep and remove all plant debris. Use power sprayer to wash all surfaces to remove loose dirt.
3. Prepare solutions in indicated concentrations and ensure surfaces are wetted and remain visibly wet for the times noted below in the instructions associated with the desired application. Dispose of pouch according to instructions on pouch label.

### FOR WORK AREAS, BENCHES AND EVAPORATIVE COOLERS

4. [Prepare a 100 ppm solution in accordance with the instructions above **OR** use the undiluted contents of the activated *Selectrocide*<sup>®</sup>2L500 solution with a 1:5 dilution device (one part activated solution to four parts water).] [[Prepare a 100 ppm solution in accordance with the instructions above **OR** use the undiluted contents of the activated

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[*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBER 100*] solution with a 1:5 dilution device (one part activated solution to four parts water).]]

- Spray or swab work area and bench surfaces before each work period and again after each planting is completed to help control the transfer of diseases. Spray or swab evaporative cooler surfaces, ensuring visible wetness for at least ten (10) minutes. When applying these solutions using a high-pressure sprayer, wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide.

### FOR POTS, FLATS, FLOWER BUCKETS AND CUTTING TOOLS

#### FOR A TEN (10) MINUTE OR LONGER DISINFECTION

- [Prepare a 100 ppm solution in accordance with the instructions above **OR** use the undiluted contents of the activated *Selectrocide*<sup>®</sup>2L500 solution with a 1:5 dilution device (one part activated solution to four parts water).] [[Prepare a 100 ppm solution in accordance with the instructions above **OR** use the undiluted contents of the activated [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBER 100*] solution with a 1:5 dilution device (one part activated solution to four parts water).]]
- Brush or wash used pots and flats, and then soak in the 100 ppm solution for at least ten (10) minutes before reuse to help control transfer of diseases. Soak tools with 100 ppm solution for at least ten (10) minutes to help control the transfer of disease.
- Discard solution in sanitary drain or as ordinary non-hazardous waste. Do not reuse solution.

At end of workday, dry and oil tools.

#### FOR A TWENTY (20) MINUTE OR LONGER DISINFECTION

- [Prepare a 50 ppm solution in accordance with the instructions above **OR** use the undiluted contents of the activated *Selectrocide*<sup>®</sup>2L500 solution with a 1:10 dilution device (one part activated solution to nine parts water).] [[Prepare a 100 ppm solution in accordance with the instructions above **OR** use the undiluted contents of the activated [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBER 100*] solution with a 1:5 dilution device (one part activated solution to four parts water).]]
- Brush or wash used pots and flats and then soak in the 50 ppm solution for at least twenty (20) minutes before reuse to help control transfer of diseases. Soak tools with 50 ppm solution for at least twenty (20) minutes to help control the transfer of disease.
- Discard solution in sanitary drain or as ordinary non-hazardous waste. Do not reuse solution.

At end of workday, dry and oil tools.

### **B. To sanitize work area non-porous (non-food contact) hard surfaces, hard-surface benches, pots, flats, flower buckets and cutting tools:**

- Activate [*Selectrocide*<sup>®</sup>2L500] [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBER 100*] according to "Directions for Use" on pouch label.
- Pre-clean all surfaces prior to application of sanitizing solution. Sweep and remove all plant debris. Use power sprayer to wash all surfaces to remove loose dirt.
- [Prepare a 20 ppm solution in accordance with the instructions above **OR** use the undiluted contents of the activated *Selectrocide*<sup>®</sup>2L500 solution with a 1:25 dilution device (one part activated solution to 24 parts water).] [[Prepare a 20 ppm solution in accordance with the instructions above **OR** use the undiluted contents of the activated [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBER 100*] solution with a 1:5 dilution device (one part activated solution to four parts water).]]
- Brush or wash used pots and flats then swab or soak in the 20 ppm solution for at least five (5) minutes before reuse to help control transfer of diseases. Spray, swab or soak tools with 20 ppm solution for at least five (5) minutes to help control the transfer of disease. Spray or swab work area and bench surfaces before each work period and again after each planting is completed to help control the transfer of diseases. If applying these solutions using a high-pressure sprayer,

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wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide. If soaking, discard solution in sanitary drain or as ordinary non-hazardous waste; do not reuse solution.

5. Dispose of pouch according to instructions on pouch label.

At end of workday, dry and oil tools

### C. As a dip to control and suppress bacteria (*Erwinia chrysanthemi*), algae (such as *Phormidium boneri*) and fungi (such as *Penicillium digitatum*, *Botrytis sp.*, and *Fusarium solani*) on rooted and unrooted cuttings and cut flowers:

1. Activate [*Selectroicide*<sup>®</sup>2L500] [*Selectroicide*<sup>®</sup> Pouch 200MG] [*CLO2BBER 100*] according to "Directions for Use" on pouch label.
2. [Prepare a 5 ppm solution in accordance with the instructions above **OR** use the undiluted contents of the activated *Selectroicide*<sup>®</sup>2L500 solution with a 1:100 dilution device (one part activated solution to 99 parts water).] [[Prepare a 5 ppm solution in accordance with the instructions above **OR** use the undiluted contents of the activated [*Selectroicide*<sup>®</sup> Pouch 200MG] [*CLO2BBER 100*] solution with a 1:20 dilution device (one part activated solution to 19 parts water).]]
3. Briefly dip cuttings or cut flowers and ensure they remain visibly wet with solution for at least one minute.
4. Dispose of pouch according to instructions on pouch label.

### D. As a dip or drench to control and suppress bacteria (*Erwinia chrysanthemi*), algae (*Phormidium boneri*) and fungi (*Penicillium digitatum*, *Botrytis sp.*, *Fusarium solani*, *Pythium aphanidermatum*, *Pythium irregulare*, *Fusarium oxysporum f. sp. Basilicum (Fob)*) in seed-bed soil and planting cubes:

1. Activate [*Selectroicide*<sup>®</sup>2L500] [*Selectroicide*<sup>®</sup> Pouch 200MG] [*CLO2BBER 100*] according to "Directions for Use" on the pouch label.
2. [Prepare a 5 ppm solution in accordance with the instructions above **OR** use the undiluted contents of the activated *Selectroicide*<sup>®</sup>2L500 solution with a 1:100 dilution device (one part activated solution to 99 parts water).] [[Prepare a 5 ppm solution in accordance with the instructions above **OR** use the undiluted contents of the activated [*Selectroicide*<sup>®</sup> Pouch 200MG] [*CLO2BBER 100*] solution with a 1:20 dilution device (one part activated solution to 19 parts water).]]
3. Immerse or drench seed-bed soil or planting cubes and allow to remain visibly wet with solution for ten (10) minutes.
4. Dispose of pouch according to instructions on pouch label.

Soil or planting cubes can be seeded or planted immediately after treatment.

### E. For removing slime and retarding its reemergence; for antimicrobial applications involving algae (*Phormidium boneri*) and fungi (*Penicillium digitatum*, *Botrytis sp.*, *Fusarium solani*, *Pythium aphanidermatum*, *Pythium irregulare*, *Fusarium oxysporum f. sp. Basilicum (Fob)*); and for continuous treatment to inhibit their re-establishment in irrigation systems, flood floors, flooded benches, misting systems, humidification systems, recycled water systems and capillary mats:

1. [Activate *Selectroicide*<sup>®</sup>2L500 according to "Directions for Use" on pouch label.] [[Activate [*Selectroicide*<sup>®</sup> Pouch 200MG] [*CLO2BBER 100*] according to "Directions for Use" on pouch label to prepare a 100 ppm solution in accordance with instructions.]]
2. Pre-clean all surfaces prior to application of disinfectant solution. Sweep and remove all plant debris. Use power sprayer to wash all surfaces to remove loose dirt.
3. Prepare solutions in indicated concentrations and ensure surfaces are wetted and remain visibly wet for the times or are applied continuously as noted below. Dispose of pouch according to instructions on pouch label.

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### AS AN INITIAL OR REMEDIAL TREATMENT TO DISINFECT WATER HOLDING TANKS AND LINES (CLEAN-IN-PLACE APPLICATION)

4. Flush tank thoroughly with clean water.
5. [Prepare a 50 ppm solution in accordance with the directions above **OR** use the undiluted contents of the activated *Selectrocide*<sup>®</sup>2L500 solution with a 1:10 dilution device (one part activated solution to nine parts water).] [[Prepare a 50 ppm solution in accordance with the instructions above **OR** use the undiluted contents of the activated [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBER 100*] solution with a 1:1 dilution device (one part activated solution to 1 part water).]]
6. Fill tank completely. Run solution through irrigation/transfer lines and appliances until green solution appears at the outlets. Top-off tank with solution. Circulate or let stand in tank and lines for at least twenty (20) minutes.
7. Drain tanks and lines, flush with clean water, and resume normal operation.

### AS AN INITIAL OR REMEDIAL TREATMENT TO DISINFECT AND REMOVE SLIME, ALGAE AND FUNGI FROM WATER HOLDING TANKS AND IRRIGATION/TRANSFER LINES (CLEAN-IN-PLACE APPLICATION)

4. Flush tank thoroughly with clean water.
5. [Prepare a 50 ppm solution in accordance with the directions above **OR** use the undiluted contents of the activated *Selectrocide*<sup>®</sup>2L500 solution with a 1:10 dilution device (one part activated solution to nine parts water).] [[Prepare a 5 ppm solution in accordance with the instructions above **OR** use the undiluted contents of the activated [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBER 100*] solution with a 1:20 dilution device (one part activated solution to 19 parts water).]]
6. Fill tank completely. Run solution through irrigation/transfer lines and appliances until green solution appears at the outlets. Top-off tank with solution. Circulate or let stand in tank and lines overnight (12 hours).
7. Drain tanks and lines, flush with clean water, and resume normal operation.

### FOR CONTINUOUS TREATMENT TO INHIBIT THE RE-ESTABLISHMENT OF SLIME, ALGAE, AND FUNGI

4. [Dilute the 500 ppm *Selectrocide*<sup>®</sup>2L500 solution to 0.25 ppm using a 1:2,000 dilution device **OR** by adding one part 500 ppm solution to 1,999 parts water.] [[Dilute the 500 ppm [*Selectrocide*<sup>®</sup> Pouch 200MG] [*CLO2BBER 100*] solution to 0.25 ppm by adding one part 100 ppm solution to 399 parts water.]]
5. Use the 0.25 ppm solution to operate the water system following normal application procedures.

NOTE: Use ultra low-range *Selective Micro*<sup>®</sup> Chlorine Dioxide Test Strips to verify concentration at downstream production points. Organic loads vary across water supplies, and will influence injection level necessary to ensure 0.25 ppm concentrations at emitter hoses, mist nozzles, and drip tubes.

### F. As an algacide and fungicide for treating, preventing, suppressing and controlling horticultural diseases on hard, non-porous surfaces in commercial greenhouses, garden centers and nurseries:

1. Activate [*Selectrocide*<sup>®</sup>2L500] [*Selectrocide*<sup>®</sup> Pouch 200MG][*CLO2BBER 100*] according to "Directions for Use" on pouch label.
2. Pre-clean all non-plant surfaces prior to application of solution. Sweep and remove all plant debris. Use power sprayer to wash all surfaces to remove loose dirt.
3. Prepare solutions in indicated concentrations and ensure all surfaces are wetted and remain visibly wet for the times noted below.
4. Dispose of pouch according to instructions on pouch label.

### AS AN INITIAL OR REMEDIAL TREATMENT TO KILL ALGAE AND FUNGI ON HARD NON-POROUS SURFACES ON EQUIPMENT, GREENHOUSE STRUCTURES, GLAZING, PLASTIC, BENCHES, WALKWAYS, FLOORS, WALLS, FAN BLADES,

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**VENTILATION DUCTS, WATERING SYSTEMS, COOLERS AND STORAGE ROOMS:**

5. [Prepare a 5 ppm solution in accordance with the instructions above **OR** use the undiluted contents of the activated *Selectrocide*<sup>®</sup>2L500 solution with a 1:100 dilution device (one part activated solution to 99 parts water).] [[Prepare a 5 ppm solution in accordance with the instructions above **OR** use the undiluted contents of the activated *Selectrocide*<sup>®</sup> Pouch 200MG solution with a 1:20 dilution device (one part activated solution to 19 parts water).]]
6. Apply solution with mop, sponge or sprayer. When applying these solutions using a high-pressure sprayer, wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide.
7. Visibly wet all surfaces and ensure the surfaces remain visibly wet for at least one hour.

Note: Heavy growths of algae or fungi may require scrubbing to remove dead growth.

**AS A WEEKLY PREVENTATIVE TREATMENT TO KILL, CONTROL AND SUPPRESS FUNGI AND CONTROL AND SUPPRESS ALGAE ON HARD NON-POROUS SURFACES ON EQUIPMENT, GREENHOUSE STRUCTURES, GLAZING, PLASTIC, BENCHES, WALKWAYS, FLOORS, WALLS, FAN BLADES, VENTILATION DUCTS, WATERING SYSTEMS, COOLERS AND STORAGE ROOMS:**

- 5 [Prepare a 5 ppm solution in accordance with the instructions above **OR** use the undiluted 500 ppm with a 1:100 dilution device (one part activated solution to 99 parts water).] [[Prepare a 5 ppm solution in accordance with the instructions above **OR** use the undiluted contents of the activated [*Selectrocide*<sup>®</sup> Pouch 200MG] [CLO2BBER 100] solution with a 1:20 dilution device (one part activated solution to 19 parts water).]]
- 6 Apply solution with mop, sponge or sprayer. When applying these solutions using a high-pressure sprayer, wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide. Visibly wet all surfaces and ensure the surfaces remain visibly wet for at least one hour (kill/cidal) and at least one minute (suppression).

**G. As a dip to control and suppress bacteria (*Erwinia chrysanthemi*) on cuttings and cut flowers:**

1. Activate [*Selectrocide*<sup>®</sup>2L500] [*Selectrocide*<sup>®</sup> Pouch 200MG] [CLO2BBER 100] according to "Directions for Use" on pouch label.
2. [Prepare a 5 ppm solution in accordance with the instructions above **OR** use the undiluted contents of the activated *Selectrocide*<sup>®</sup>2L500 pouch with a 1:100 dilution device (one part 500 ppm solution to 99 parts water).] [[Prepare a 5 ppm solution in accordance with the instructions above **OR** use the undiluted contents of the activated [*Selectrocide*<sup>®</sup> Pouch 200MG] [CLO2BBER 100] solution with a 1:20 dilution device (one part activated solution to 19 parts water).]]
- 3 Briefly dip cuttings or cut flowers and ensure they remain visibly wet with solution for at least one minute.
- 4 Dispose of pouch according to instructions on pouch label.

**H. To maintain freshness and extend shelf-life for cut flowers:**

1. Activate [*Selectrocide*<sup>®</sup>2L500] [*Selectrocide*<sup>®</sup> Pouch 200MG] [CLO2BBER 100] according to "Directions for Use" on pouch label.
2. [Prepare a 5 ppm solution in accordance with instructions above **OR** use the undiluted contents of the activated *Selectrocide*<sup>®</sup>2L500 pouch with a 1:100 dilution device (one part 500 ppm solution to 99 parts water).] [[Prepare a 5 ppm solution in accordance with the instructions above **OR** use the undiluted contents of the activated [*Selectrocide*<sup>®</sup> Pouch 200MG] [CLO2BBER 100] solution with a 1:20 dilution device (one part activated solution to 19 parts water).]]
3. Unbundle the flowers to preclude bunching, and place in vase on display or in cold storage in the 5 ppm solution of chlorine dioxide. Solution may include 2% sucrose.
4. Refresh solution every 24 hours.
5. Dispose of pouch according to instructions on pouch label.

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**TO EXTEND SHELF-LIFE AND FRESHNESS OF FRUITS AND VEGETABLES IN FOOD PROCESSING FACILITIES**

**THIS PRODUCT WILL REDUCE CONCENTRATIONS OF SPOILAGE MICROBES ON RAW AGRICULTURAL COMMODITIES (RACS) INTENDED FOR COMMERCIAL FOOD PROCESSING.**

1. Activate [*Selectroicide*<sup>®</sup>2L500] [Selectroicide<sup>®</sup> Pouch 200MG] [CLO2BBBER 100] according to "Directions for Use" on the pouch label.
2. Wash and thoroughly rinse fruits and vegetables with clean, potable water.
3. [Prepare a 5 ppm solution of activated *Selectroicide*<sup>®</sup>2L500 **OR** use the 500 ppm solution with a 1:100 dilution device (one part 500 ppm solution to 99 parts water).] [[Prepare a 5 ppm solution of activated [Selectroicide<sup>®</sup> Pouch 200MG] [CLO2BBBER 100] **OR** use the 100 ppm solution with a 1:20 dilution device (one part 100 ppm solution to 19 parts water).]]
4. Apply to fruits and vegetables by: either immersing/dipping in a tank of 5 ppm solution for one minute **OR** using an application-specific sprayer (the industry standard fan or cone spray nozzle pattern) to cover all surfaces evenly with a 5 ppm spray. Replenish immersion solution at the rate of depletion; verify 5 ppm concentration using *Selective Micro*<sup>®</sup> *Chlorine Dioxide Test Strips*. Empty and wash immersion tanks with every shift change.
5. Follow application to fruits and vegetables with a potable water rinse or canning, blanching, or cooking.
6. Dispose of pouch according to instructions on pouch label.

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# BRACKETED [ ] TEXT IS OPTIONAL ANTIMICROBIAL APPLICATIONS TO CONTROL THE BUILDUP OF MICROBES IN PROCESS WATERS FOR FRUITS AND VEGETABLES AND ASSOCIATED TANKS, FLUMES, AND LINES

This product will inhibit microbial growth in water used to process fruits and vegetables. Appropriate for small-volume applications only; use *Selecticide*<sup>®</sup> G-Series products for normal- and large-volume process water applications.

**NOTE:** 1. Replacement and replenishment intervals will vary with microbial challenge presented by fruits and vegetables treated. Selective Micro Technologies recommends a beginning concentration of 5 ppm, with adjustments to ensure a residual concentration between 0.25 and 5 ppm depending on microbial challenge and operation-unique factors.  
2. Apply chlorine dioxide solution continuously or intermittently to achieve a residual concentration level between 0.25 – 5.0 ppm.  
3. Regularly confirm concentration of process water using *Selective Micro*<sup>®</sup> Chlorine Dioxide Test Strips or other measurement means (e.g., Oxidation Reduction Potential [ORP] metering).

1. At regular intervals or before beginning a shift, clean tanks, flumes, and lines using normal procedures, and follow with potable water rinse. [In conditions of severe microbial accumulation (or when slime is visible), it is advisable to treat the thoroughly cleaned system with an antimicrobial treatment before returning the system to normal operation. See [*Selecticide*<sup>®</sup> 2L500] [*Selecticide*<sup>®</sup> Pouch 200MG] [CLO2BBBER 100] “Antimicrobial and General Cleaning Applications for Water Lines and Tanks in Potable Water Systems” for recommendations on cleaning tanks that are contaminated severely.]
2. Determine the number of [*Selecticide*<sup>®</sup> 2L500] [*Selecticide*<sup>®</sup> Pouch 200MG] [CLO2BBBER 100] pouches necessary based on the capacity of the tank or system, anticipated replenishment/replacement cycle based on expected microbial loads, and specific application method—once-through or recycled. The optimal concentration necessary to ensure a residual concentration of between 0.25 and 5.0 ppm will vary across operations.

For “once-through” process designs, generate [*Selecticide*<sup>®</sup> 2L500 ] [*Selecticide*<sup>®</sup> Pouch 200MG] [CLO2BBBER 100] directly to the desired end-concentration in the system’s operating tank (recommended) OR generate stock [500] [100] ppm external to the tank and meter the stock solution in adequate volume to raise the volumes of process water to the desired concentration via mechanical injection (recommended) or by batch-loading.

For “recycle” process designs, generate stock [500] [100] ppm solution external to the tank and inject activated solution in sufficient volume to raise the process water to the desired concentration via mechanical injection (recommended) or by batch-loading.

Consult pages 1-2 of this Technical Bulletin for dilution instructions, or scale to application using the table below, which presents, as a starting point, the total volume of stock 5 ppm solution generated using multiple pouches of [*Selecticide*<sup>®</sup> 2L500] [*Selecticide*<sup>®</sup> Pouch 200MG] [CLO2BBBER 100]. Because the volume of 5 ppm solution achievable using the [*Selecticide*<sup>®</sup> 2L500] [*Selecticide*<sup>®</sup> Pouch 200MG] [CLO2BBBER 100] is small, this product will be useful only for the smallest-volume applications. Use *Selecticide*<sup>®</sup> G-Series products for normal- and large-volume process water applications.

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### VOLUME OF 5 PPM SOLUTION USING

[SELECTROCIDE®2L500] [SELECTROCIDE® POUCH 200MG] [CLO2BBER 100] POUCHES

Number of [Selectrocide®2L500] [Selectrocide® Pouch 200MG] [CLO2BBER 100] Pouches	Volume of Water Specified To Generate [500] [100] ppm Stock Solution	Volume of 5 ppm Solution Created Using a Single [Selectrocide®2L500] [Selectrocide® Pouch 200MG] [CLO2BBER 100]  Pouch	
		Liters	Gallons <sup>1</sup>
1	[2] [1]	[200] [40][20]	[55][10][5]
2	[4] [2]	[400][80][40]	[105][20][10]
3	[6] [3]	[600][160][80]	[160][30][15]
4	[8] [4]	[800][320][160]	[210][45][22.5]
5	[10] [5]	[1,000]640][320]	[265][55][27.5]

<sup>1</sup> Rounded to nearest 5 gallons

3. Activate [Selectrocide®2L500] [Selectrocide® Pouch 200MG] [CLO2BBER 100] according to "Directions for Use" on package label.
4. [Prepare a 5 ppm solution of activated Selectrocide®2L500 directly in accordance with instructions above OR prepare a 500 ppm solution with any of the G-series products and use a 1:100 dilution device (one part 500 ppm solution to 99 parts water) to achieve target concentration of 5 ppm.] [[Prepare a 5 ppm solution of activated [Selectrocide® Pouch 200MG] [CLO2BBER 100] directly in accordance with instructions above OR prepare a 100 ppm solution with any of the G-series products and use a 1:20 dilution device (one part 100 ppm solution to 19 parts water) to achieve target concentration of 5 ppm.]]
5. Verify concentration of process solution using Selective Micro® Chlorine Dioxide Test Strips or other appropriate means. Adjust concentration by adding additional water if the concentration is above 5 ppm or by adding additional concentrate if below 5 ppm (or below desired concentration between 0.25 and 5.0 ppm).
6. Cover or enclose containers holding solution, and operate normally.
7. Check concentration at regular intervals using test strips or other means to ensure target concentration is maintained. Replenish solution as necessary to maintain target concentration.
8. At desired intervals, drain system, clean as necessary, and refill with freshly-activated solution.
9. Dispose of pouch according to instructions on pouch label.

## ANTIMICROBIAL TREATMENT FOR POULTRY DRINKING WATER

This product will help control microorganisms in drinking water intended for poultry.

### A. For systems that use automatic, on-demand metering/injection systems designed primarily for poultry (i.e., systems employing nipples or drip wells as the final water delivery device/method, usually situated in enclosed or protected structures):

1. Activate [Selectrocide®2L500] [Selectrocide® Pouch 200MG] [CLO2BBER 100] according to "Directions for Use" on product label.
2. If activation vessel is different from feeder tank, transfer stock solution ([500] [100] ppm) to feeder tank. To maintain concentration, ensure that feeder tank is covered.

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3. [Operate system according to standard operating protocol, using a 1:100 injection device (one part solution to 99 parts water) for a concentration of 5 ppm.] [Operate system according to standard operating protocol, using a 1:20 injection device (one part solution to 19 parts water) for a concentration of 5 ppm.]
4. Confirm concentrations of stock solution [500] [100] ppm) and end-use solution up to 5 ppm but not less than an application concentration sufficient to ensure a residual concentration of 0.25 ppm using *Selective Micro® Chlorine Dioxide Test Strips*.
5. Dispose of pouch according to instructions on pouch label.

Note: Clean and remove accumulations of organic matter in delivery lines on a regular basis. (See, for example, label and technical bulletin instructions for this product under the heading "Antimicrobial and General Cleaning Applications for Potable Water Systems")

**B. For trough-based systems.**

Use products from the *Selectroicide® G-Series* for these large-volume applications.

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**SANITIZING FINAL RINSE OF PRE-CLEANED OR NEW RETURNABLE OR NON-RETURNABLE CONTAINERS**

**This product may be used as a final sanitizing rinse for plastic, glass or metal returnable and non-returnable bottles, cans, caps, kegs, and beverage containers.**

1. Activate [*Selectroicide® 2L500*] [*Selectroicide® Pouch 200MG*] [CLO2BBER 100] according to "Directions for Use" on pouch label.
2. Wash bottles, cans or containers with detergent or cleaning solution and rinse with potable water.
3. [Starting with the 500 ppm solution, use a 6:100 dilution device (six parts 500 ppm solution to 94 parts water) to achieve an application concentration of 30 ppm. The table below presents the number of 2L500 pouches necessary to product the associated volume of 30 ppm application solution.] [[Starting with the 100 ppm solution, use a 30:100 dilution device (thirty parts 100 ppm solution to 70 parts water) to achieve an application concentration of 30 ppm. The table below presents the number of *Selectroicide® Pouch 200MG* pouches necessary to product the associated volume of 30 ppm application solution.]]

**VOLUME OF 30 PPM SOLUTION USING  
[SELECTROCIDE® 2L500] [SELECTROCIDE® POUCH 200MG] [CLO2BBER 100] POUCHES**

Number of [ <i>Selectroicide® 2L500</i> ] [ <i>Selectroicide® Pouch 200MG</i> ] [CLO2BBER 100] Pouches	Volume of Water Specified To Generate [500] [100] ppm Stock Solution	Volume of 30 ppm Solution Created Using a Single <i>Selectroicide® 2L500</i> [ <i>Selectroicide® Pouch 200MG</i> ] [CLO2BBER 100] Pouch	
		Liters <sup>1</sup>	Gallons <sup>1</sup>
1	[1] [2]	[3.5] [7] [33]	[0.85][1.7][8.8]
2	[2] [4]	[6.5][13] [67]	[1.65][3.3][17.6]
3	[3] [6]	[13.5] [27] [100]	[2.5][5.0][26.4]
4	[4] [8]	[26.5] [53] [133]	[3.75][7.5][35.2]
5	[5] [10]	[53.5] [107] [167]	[4.6][9.2][44.0]

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1 Rounded to nearest liter or tenths of gallon

- 4. To apply: rinse interior and exterior surfaces with the 30 ppm solutions by spraying, sponging, swabbing, or swirling, immersing in a manner that ensures the target surfaces become visibly wet for a contact time of 30 seconds (including drying time). (If applying these solutions using a high-pressure sprayer, wear a NIOSH/MSHA-approved respirator appropriate for chlorine dioxide).
- 5. Allow to drain dry.

NOTE: Use products from the *Selectroicide® G-Series* for larger-volume applications.

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**ANTIMICROBIAL AND GENERAL CLEANING USES FOR  
NON-POTABLE WATER APPLICATIONS INVOLVING RECIRCULATING  
WATER SYSTEMS (E.G., COOLING TOWERS, PAPER MILLS, AND  
DECORATIVE OR ORNAMENTAL FOUNTAINS)**

This product will help remove, control and inhibit reemergence of slimes, algae, fungi, and other organic buildups in recirculating cooling water systems, including cooling towers and decorative or ornamental fountains. It can be used as a periodic treatment or during continuous operations in antimicrobial applications involving algae, fungi or bacteria.

- 1. Activate [*Selectroicide®2L500*] [*Selectroicide®* Pouch 200MG] [CLO2BBER 100] according to "Directions for Use" on package label.
- 2. [Prepare a 500 ppm solution of activated *Selectroicide®2L500* in accordance with label instructions.] [[Prepare a 100 ppm solution of [*Selectroicide®* Pouch 200MG] [CLO2BBER 100] in accordance with instructions.
- 3. Where possible, pre-clean surfaces prior to application. Flush tanks or water system with clean water.
- 4. Apply/add the [500] [100]-ppm solution to the tank water or water stream at a point in the system or in a manner which minimizes turbulence and exposure to the air.
- 5. Dispose of pouch according to instructions on pouch label.

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**AS AN INITIAL OR REMEDIAL TREATMENT FOR RECIRCULATING COOLING WATER SYSTEMS,  
WATER HOLDING TANKS AND DECORATIVE AND ORNAMENTAL FOUNTAINS**

- 6. [For each 55 gallons of cooling or fountain water add the contents of a single pouch of activated *Selectroicide®2L500* solution (2 liters at 500 ppm) to achieve a 5 ppm residual chlorine dioxide level.] [[For each 55 gallons of cooling or fountain water add the contents of [five] [ten] single pouches of activated [*Selectroicide®* Pouch 200MG] [CLO2BBER 100] solution ([1] [2] liters at 100 ppm) to achieve a 5 ppm residual chlorine dioxide level]]. Circulate water in normal operation of the system.
- 7. Check residual chlorine dioxide concentration using *Selective Micro® Chlorine Dioxide Test Strips*. If residual chlorine dioxide concentration is below 5 ppm, add additional [500] [100] ppm solution until solution reaches 5 ppm; verify with *Test Strips*.
- 8. Repeat daily until desired results are achieved.

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**FOR CONTINUOUS TREATMENT TO INHIBIT THE RE-ESTABLISHMENT OF SLIME, ALGAE, OR FUNGI**

- 6. [For each 550 gallons of cooling or fountain water add the contents of a single pouch of activated *Selectroicide®2L500* solution (2 liters at 500 ppm) to achieve a residual chlorine dioxide concentration of approximately 0.5 ppm.] [[For each 550 gallons of cooling or fountain water add the contents of [five][ten] single

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 Master Technical Bulletin 74986-4: 2L500 425-12445 (Revised 8-12)



# Selective Micro Technologies

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pouches of activated [*Selectroicide*<sup>®</sup> Pouch 200MG] [CLO2BBER 100] solution ([1] [2] liters at 100 ppm) to achieve a residual chlorine dioxide concentration of approximately 0.5 ppm.]] Circulate water in normal operation of the system.

- 7. Check residual chlorine dioxide concentration using *Selective Micro*<sup>®</sup> *Chlorine Dioxide Test Strips*. If residual chlorine dioxide concentration falls below 0.1 ppm, add more [500] [100] ppm solution (about [1] [5] gallon of the [500] [100] ppm solution for each 1,000 gallons of cooling or fountain water) to increase the residual chlorine dioxide concentration to about 0.5 ppm. Verify concentration with *Test Strips*.

### INSTRUCTIONS WHEN USING A DOSING PUMP AS AN INITIAL OR REMEDIAL TREATMENT FOR RECIRCULATING COOLING WATER SYSTEMS, WATER HOLDING TANKS AND DECORATIVE AND ORNAMENTAL FOUNTAINS

- 6. [For each 55 gallons of cooling or fountain water add the contents of a single pouch of activated *Selectroicide*<sup>®</sup> 2L500 solution (2 liters at 500 ppm) to achieve a 5 ppm residual chlorine dioxide level.] [[For each 55 gallons of cooling or fountain water add the contents of five single pouches of activated [*Selectroicide*<sup>®</sup> Pouch 200MG] [CLO2BBER 100] solution ([1] [2] liters at 100 ppm) to achieve a 5 ppm residual chlorine dioxide level.]] Circulate water in normal operation of the system.
- 7. Check residual chlorine dioxide concentration using *Selective Micro*<sup>®</sup> *Chlorine Dioxide Test Strips*. If residual chlorine dioxide concentration is below 5 ppm, add additional [500][100] ppm solution until solution reaches 5 ppm; verify with *Test Strips*.
- 8. Repeat daily until desired results are achieved.

### INSTRUCTIONS WHEN USING A DOSING PUMP FOR CONTINUOUS TREATMENT TO INHIBIT THE RE-ESTABLISHMENT OF SLIME, ALGAE, OR FUNGI

- 6. Set the dosing pump to achieve a continuous concentration of chlorine dioxide between 0.25 ppm and 0.5 ppm. In order to maintain this concentration and the appropriate dosing, consider the volume of water in the system, half-life (makeup/blowdown rate), evaporative rate and windage loss of the system.
- 7. Check residual chlorine dioxide concentration using *Selective Micro*<sup>®</sup> *Chlorine Dioxide Test Strips*. If residual chlorine dioxide concentration falls below 0.25 ppm, increase the dosage rate.

### FOR PERIODIC TREATMENT TO INHIBIT THE RE-ESTABLISHMENT OF SLIME, ALGAE, OR FUNGI

- 6. [For each 550 gallons of cooling or fountain water add the contents of a single pouch of activated *Selectroicide*<sup>®</sup> 2L500 solution (2 liters at 500 ppm) to achieve approximately 0.5 ppm residual chlorine dioxide concentration. Circulate water in normal operation of the system.] [[For each 55 gallons of cooling or fountain water add the contents of [five] [ten] single pouches of activated [*Selectroicide*<sup>®</sup> Pouch 200MG] [CLO2BBER 100] solution ([1] [2] liters at 100 ppm) to achieve a 0.5 ppm residual chlorine dioxide concentration.]] Check residual chlorine dioxide concentration using *Selective Micro*<sup>®</sup> *Chlorine Dioxide Test Strips*.
- 7. Repeat weekly or on first indications of increased slime, algae or fungi.

## DISINFECTION, SANITIZING, ANTIMICROBIAL AND GENERAL CLEANING APPLICATIONS FOR WINERIES

This product will disinfect, sanitize, and clean winemaking equipment and environmental surfaces in wineries. It is effective against microbes and spoilage organisms on all non-porous surfaces including: picking bins, crushers, transfer lines/hoses/pipes, tanks, drains, pumps, presses, de-stemmers, sealed concrete floors and walls, steel cutting boards/surfaces, sumps, valves and tri-clover fittings, pruning shears, and steel wine barrels.

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NOTE: 1. For additional information on label applications or to discuss other winery-specific application issues, contact Selective Micro Technologies' service personnel. 2. This product does not produce Trichloroanisol (TCA) or precursor Trichlorophenol (TCP) by chemical reaction in red wine or in cooperage oak, and therefore does not contribute to the off odors associated with the former.

A. Disinfecting and sanitizing applications for winery equipment and environmental surfaces (including all non-porous materials and surfaces, such as transfer hoses and pipes, and other items listed above):

- 1. Activate [Selectrocide®2L500] [Selectrocide® Pouch 200MG] [CLO2BBER 100] according to "Directions for Use" on package label.
2. Disinfecting Applications. [For disinfecting applications, prepare a 100 ppm solution of activated Selectrocide®2L500 directly in accordance with instructions above OR prepare a 500 ppm solution of Selectrocide®2L500 and use a 1:5 dilution device (one part 500 ppm solution to 4 parts water).] [[For disinfecting applications, prepare a 100 ppm solution of activated [Selectrocide® Pouch 200MG] [CLO2BBER 100]].
Sanitizing Applications on hard, food-contact surfaces. [For sanitizing applications on hard, food-contact surfaces, prepare a 5 ppm solution of activated Selectrocide®2L500 directly in accordance with instructions above OR prepare a 500 ppm solution of Selectrocide®2L500 and use a 1:100 dilution device (one part 500 ppm solution to 99 parts water).] [[For sanitizing applications on hard, food-contact surfaces, prepare a 5 ppm solution of activated [Selectrocide® Pouch 200MG] [CLO2BBER 100] directly in accordance with instructions above OR prepare a 100 ppm solution of [Selectrocide® Pouch 200MG] [CLO2BBER 100] and use a 1:20 dilution device (one part 500 ppm solution to 19 parts water).]
Sanitizing Applications on hard, non-food-contact surfaces. [For sanitizing applications on hard, non-food-contact surfaces, prepare a 20 ppm solution of activated Selectrocide®2L500 directly in accordance with instructions above OR prepare a 500 ppm solution of Selectrocide®2L500 and use a 1:25 dilution device (one part 500 ppm solution to 24 parts water).] [[For sanitizing applications on hard, non-food-contact surfaces, prepare a 20 ppm solution of activated [Selectrocide® Pouch 200MG] [CLO2BBER 100] directly in accordance with instructions above OR prepare a 100 ppm solution of [Selectrocide® Pouch 200MG] [CLO2BBER 100] and use a 1:5 dilution device (one part 500 ppm solution to 4 parts water).]
3. Apply to target surfaces with mop, sponge, or spray OR fill, flush, immerse or circulate in tanks, lines and equipment, ensuring surfaces remain visibly wet for the following contact times:
- Disinfection (100 ppm): 10 minutes
- Sanitizing hard food-contact surfaces (5 ppm): 1 minute
- Sanitizing hard non-food contact surfaces (20 ppm): 5 minutes
4. Dispose of pouch according to instructions on pouch label.

B. For sanitizing and cleaning tanks and associated connections, pipes, and hoses:

Use products from the Selectrocide® G-Series for these large-volume applications.

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